(12) **INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)**

(51) International Patent Classification⁷: C07K 14/415

(21) International Application Number:
PCT/CH2004/000536

(22) International Filing Date: 23 August 2004 (23.08.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
PCT/CH03/00568   22 August 2003 (22.08.2003)   CH

(71) Applicant (for all designated States except US): OP-
TIMA ENVIRONNEMENT S.A. [CH/CH]; 29, ch. de
la Vuarpillière, CH-1260 Nyon (CH).

(72) Inventors; and
(75) Inventors/Applicants (for US only): MERMOD, Nicolas
[CH/CH]; rte des Deux Communes, CH-1164 Buchillon
(CH). SUAREZ, Mougli [UY/CH]; Av. d'Epenex 25,
CH-1024 Ecublens (CH).

(74) Agent: ROLAND, André; Avenue Tissot 15, CH-1001
Lausanne (CH).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:
— with international search report
— before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

---

(54) Title: PLANT-DERIVED PEPTIDES HARBORING WATER-CLEANING AND ANTIMICROBIAL ACTIVITIES

(57) **Abstract:** Protein family derived from the protein defined by the sequence QGPGRQPDFQRCGQQLRNISPPQRCP-
SLRQAVQLTHQQQGQVGPQQVRQMYRVASNIPST